Amendments to the Claims

What is claimed is:

- 1. A vaccine comprising a non-neuroinvasive rabies virus wherein a glycoprotein gene of said non-neuroinvasive rabies virus is replaced with a glycoprotein gene of a neuroinvasive rabies virus to produce an attenuated recombinant rabies virus for vaccination.
- 2. The vaccine of Claim 1 wherein said vaccination comprises an oral vaccination.
- 3. The vaccine of Claim 1 wherein said attenuated recombinant rables virus slows down an uptake of a rables virus into a cell.
 - 4. The vaccine of Claim 3 wherein said cell is a neuron.
- 5. The vaccine of Claim 1 wherein said glycoprotein gene of a neuroinvasive rabies virus comprises a glycoprotein gene encoding a cytoplasmic tail from a heterologous glycoprotein gene.
 - 6. Cancelled
- 7. (currently amended) A vaccine comprising a rabies virus wherein a cytochrome c gene is inserted into said rabies virus such that a pro-apoptotic cytochrome c protein is expressed from said pro-apoptotic cytochrome c gene to produce a recombinant rabies virus for vaccination.
 - 8. Cancelled
 - 9. The vaccine of Claim 7 wherein said vaccination is an oral vaccination.
- 10. (currently amended) The vaccine of Claim 7 wherein said apoptotic cytochrome c protein induces an acceleration of apoptosis.

- 11. The vaccine of Claim 10 wherein said acceleration of apoptosis enhances an immune response against said rabies virus.
- 12. The vaccine of Claim 7 wherein said recombinant rabies virus vaccine attenuates the pathogenicity of a rabies virus.
- 13. (currently amended) A vaccine comprising a rabies virus wherein a cytochrome c gene is inserted into said rabies virus such that a pre apoptotic cytochrome c protein is expressed from said pre-apoptotic cytochrome c gene and further wherein a glycoprotein gene of said rabies virus is replaced with a glycoprotein gene of a neuroinvasive rabies virus to produce an attenuated recombinant rabies virus for vaccination.
 - 14. Cancelled
 - 15. The vaccine of Claim 13 wherein said vaccination is an oral vaccination.
- 16. The vaccine of Claim 13 wherein said glycoprotein gene of a neuroinvasive rabies virus comprises a glycoprotein gene encoding a cytoplasmic tail from a heterologous glycoprotein gene.
- 17. The vaccine of Claim 13 wherein said glycoprotein gene of a neuroinvasive rabies virus comprises a change in an amino acid.
- 18. The vaccine of Claim 13 wherein said pro-apoptotic protein induces an acceleration of apoptosis.
 - 19. The vaccine of Claim 18 wherein said acceleration of apoptosis enhances an immune response against said rabies virus.